

## Product datasheet for **TA320397**

### CD61 (ITGB3) Mouse Monoclonal Antibody [Clone ID: VI-PL2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	VI-PL2
Applications:	FC
Recommended Dilution:	Flow, IHC, Functional Assay, WB
Reactivity:	Baboon, Canine, Human, Rhesus Monkey
Host:	Mouse
Clonality:	Monoclonal
Formulation:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	integrin subunit beta 3
Database Link:	<a href="#">NP_000203</a> <a href="#">Entrez Gene 3690 Human P05106</a>



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**Background:**

The VI-PL2 monoclonal antibody reacts with human CD61, also known as integrin beta 3 and GPIIIa. CD61 is a 90-110 kDa member of the beta integrin family expressed by a wide variety of cells, including leukocytes, platelets, endothelial and smooth muscle cells. CD61 binds non-covalently with the alpha integrins CD41 and CD51, to form the alpha IIb beta3 (CD41/CD61) and alpha v beta3 (CD51/CD61) complexes. These alpha beta heterodimers are capable of mediating a variety of cellular responses including adhesion, trafficking, proliferation and differentiation. The CD41/CD61 integrin has been shown to be involved in platelet aggregation, and binds to fibrinogen, von Willebrand Factor (vWF) and fibronectin. The CD51/CD61 integrin binds to matrix proteins including vitronectin, fibronectin, vWF and fibrinogen, and has been shown to have a strong role in modulating the migration and survival of angiogenic endothelial cells. This VI-PL2 antibody has also been shown to crossreact with canine and several non-human primate species, including baboon, rhesus, and cynomolgus monkey.

**Synonyms:**

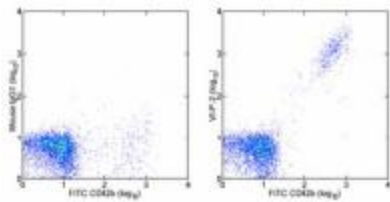
BDPLT2; BDPLT16; CD61; GP3A; GPIIIa; GT

**Protein Families:**

Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:**

Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), Regulation of actin cytoskeleton

**Product images:**

Staining of normal human peripheral blood platelets with 0.06 ug of Mouse IgG1 kappa Isotype Control Purified (left) or 0.06 ug of Anti-Human CD61 (Integrin beta 3) Purified (right) followed by 'F (ab')<sub>2</sub> Anti-Mouse IgG PE followed by Anti-Human CD42b FITC.